

Headquarters U.S. Air Force

Integrity - Service - Excellence

Explosive Ordnance Disposal

**CMSgt John D. Olive
EOD Career Field
Manager**



U.S. AIR FORCE



U.S. AIR FORCE

Overview

- **Mission Definition**
- **AF EOD Mission Areas**
- **Training**
- **Manning**
- **VIP Support**
- **Operations**
- **Current Programs/Equipment**

Integrity - Service - Excellence



U.S. AIR FORCE

Mission

■ **Explosive Ordnance Disposal**

“Performs, supervises, and manages explosive ordnance disposal (EOD) operations. Locates, identifies, disarms, neutralizes, recovers, and disposes of hazardous explosives; conventional, chemical, biological, incendiary, and nuclear ordnance; and criminal or terrorist devices.”
AFMAN 36-2108

Integrity - Service - Excellence



AF EOD Mission Areas

U.S. AIR FORCE

Primary:

- **Aerospace Vehicle (Launch & Recovery Operations)**
- **Force Protection**
- **Weapons of Mass Destruction (WMD)**
- **Nuclear Accident/Incident Response**
- **Unexploded Ordnance (UXO) Recovery Ops**
- **Active Range Clearance (ARC)**
- **Mortuary Services**
- **Federal & Civilian Authority Support**
- **Base Populace Training**

Other:

- **Joint POW/MIA Accounting Command (JPAC) Missions**
- **Intelligence Gathering/Post Blast**
- **Black Projects**
- **Research & Development**

Integrity - Service - Excellence



U.S. AIR FORCE

Training

Outside Agency Training

- **Training in Explosive-Related Areas**
 - **Bomb Threat Search Techniques**
 - Military Working Dog
 - Vehicle Search Procedures
 - **Explosives Effects Demonstration**
 - **Explosive Ordnance Reconnaissance**
 - IED/UXO
 - **Aircraft Battle Damage Repair**
 - **Bomb Removal**
 - **Postal and School Bomb Threat Briefings**
 - **Pyrotechnics Certification**
 - **Range Safety Briefings**
 - **Fire Munitions Hazards Familiarization**

I n t e g r i t y - S e r v i c e - E x c e l l e n c e



U.S. AIR FORCE

Training

~~In-House Requirements~~

- **CFETP Core Task Items**
 - **Over 350 Line Items (Annual or Semi-Annual)**
 - U.S. and Foreign Munitions
 - Locally Supported Weapon Systems
 - Maintain Technical Data on Thousands
 - **Monthly Demolition Qualification**
 - **Assigned Equipment**
 - **Quarterly Practical Exercises**
 - Full Spectrum Threat Response
 - IED
 - WMD
 - Conventional
 - Chemical
 - Broken Arrow
 - Aircraft Response

Integrity - Service - Excellence



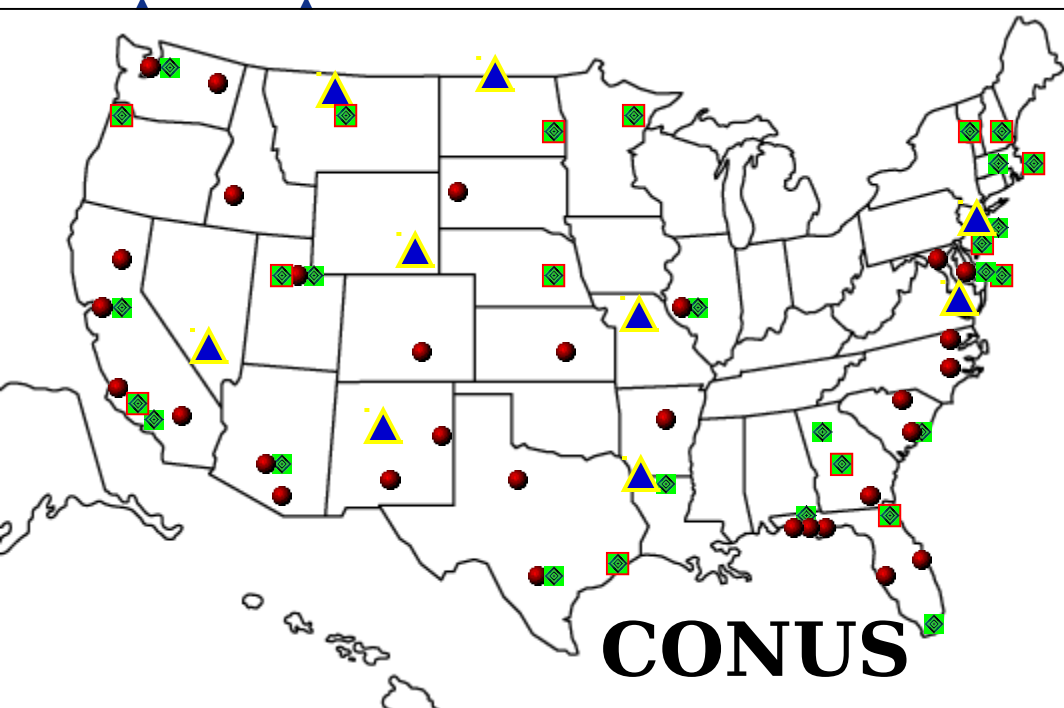
U.S. AIR FORCE

Training

Advanced Courses

- **EOD Advanced Training Requirements:**
 - **Advanced IEDD Course**
 - **Joint Nuclear Course**
 - **ATF/FBI Post Blast Course**
 - **.50 CAL BARRET**
 - **ARTS/REMOTEC MAINTENANCE/OPERATOR**
 - **COMMERCIAL AIED COURSES**
 - **CST/GATOR COURSE**
 - **EAGLE FLAG (4F9X1)**

Integrity - Service - Excellence



Active Duty

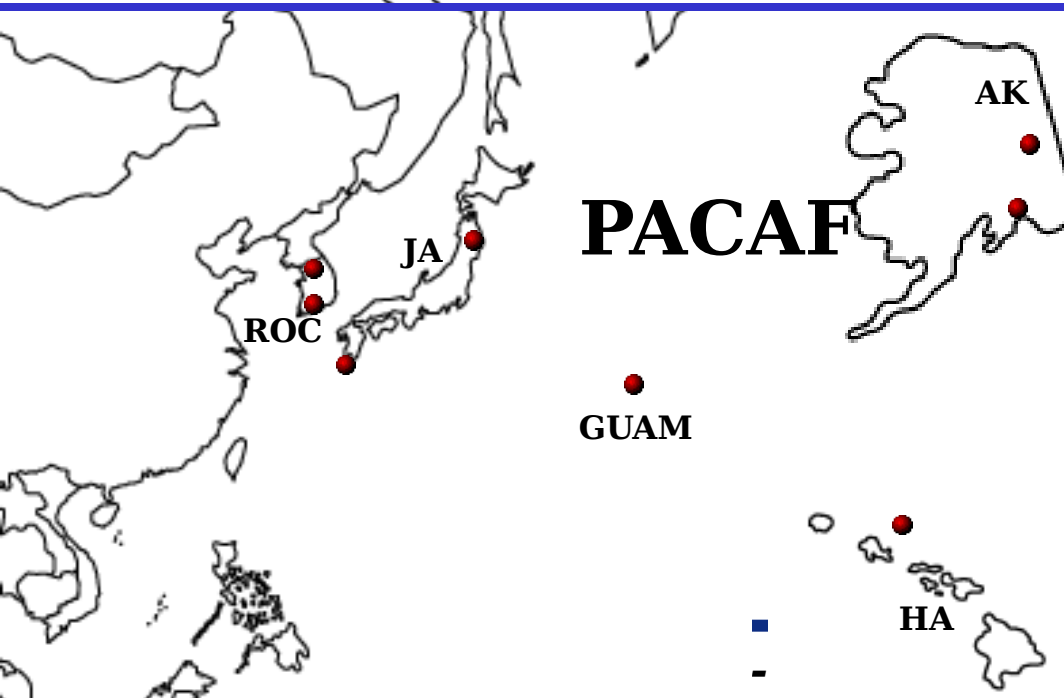
▲ 14 Direct Support

● 39 Indirect Support

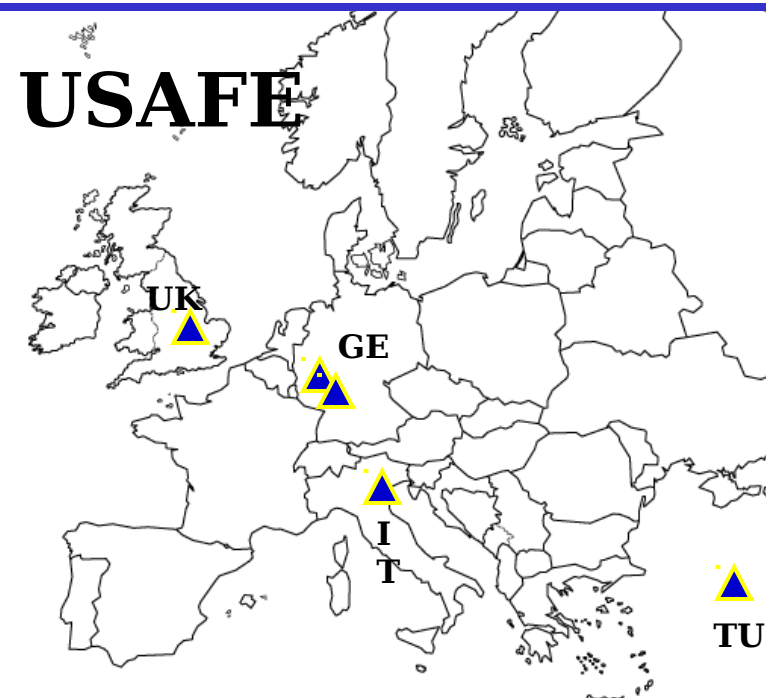
ARC

■ 15 AFRC

■ 15 ANG



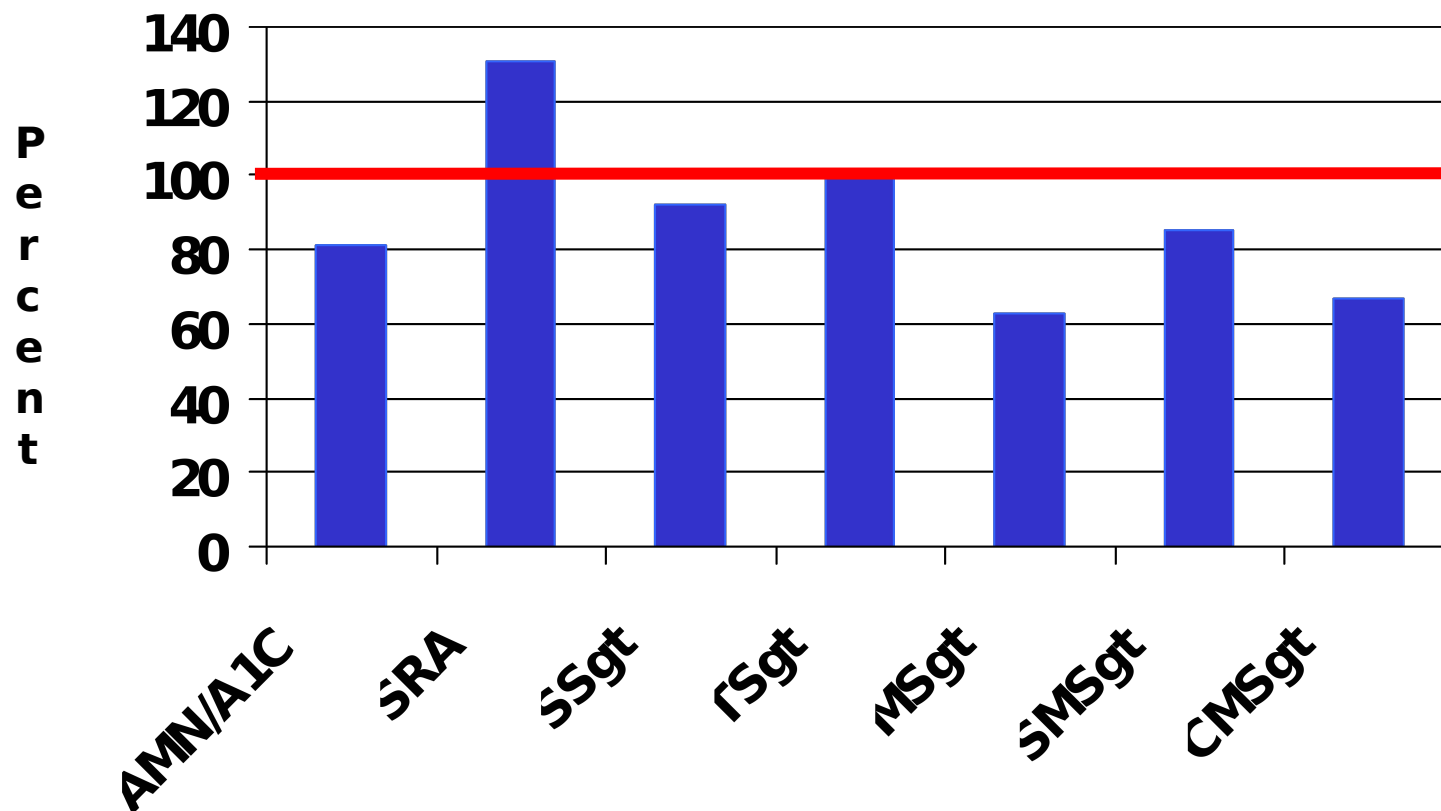
USAFE





U.S. AIR FORCE

Manpower - Current Manning



Integrity - Service - Excellence



U.S. AIR FORCE

Manpower - Maintenance

Force Structure “Maintenance”

- Selective Reenlistment Bonus (Effective Jun 06)
 - Zone A = 3, B = 3.5 , C = 1
- Enlistment Bonus
 - 4 yr = \$4K, 6 yr = \$10K
- No re-trainees over E-5
 - Technical career field requires “*Experienced EOD SNCOs*”: ARC is an exception
- SNCO Initiatives
 - Critical Skills Retention Bonus (CSRB) for SNCO
 - Targeted Promotions

Integrity - Service - Excellence

JOINT-SERVICES EOD VIP SUPPORT

**Authority: DOD Directive 3025.13,
DOD Instruction 5030.34,
OPLAN for VIP Support**

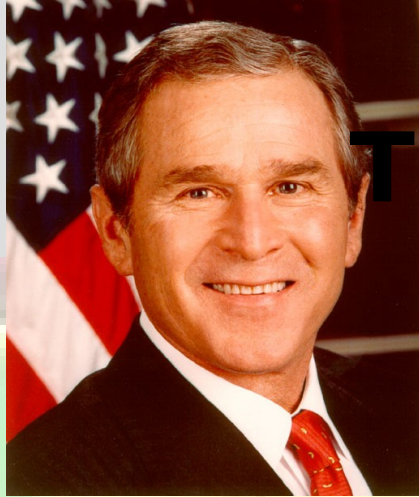
**Requested by U.S. Secret Service and
Department of State**

**USJFCOM designated as Operating Agent
Management delegated to FORSCOM**

VIP Protective Support Activity (VIPPSA)

VIPPSA Tasks and Coordinates VIP Support

NON- REIMBURSABLE



**The President
(POTUS)**



**The Vice-
President
(VPOTUS)**

REIMBURSABLE

Secretary of State

First Lady (FLOTUS)

Secretary of Treasury

Visiting Foreign Heads of State

**Major Presidential Candidates
(election years)**

**Other Dignitaries directed by
USSS and DOS**

OTHER SUPPORT

White House, Washington, D.C. (OEOB)

Major Events

(UN, Olympics, DNC, RNC, UNGA, etc...)

■ UN General Assembly - 115 teams (New York, NY) Sep 05

Camp David, Maryland

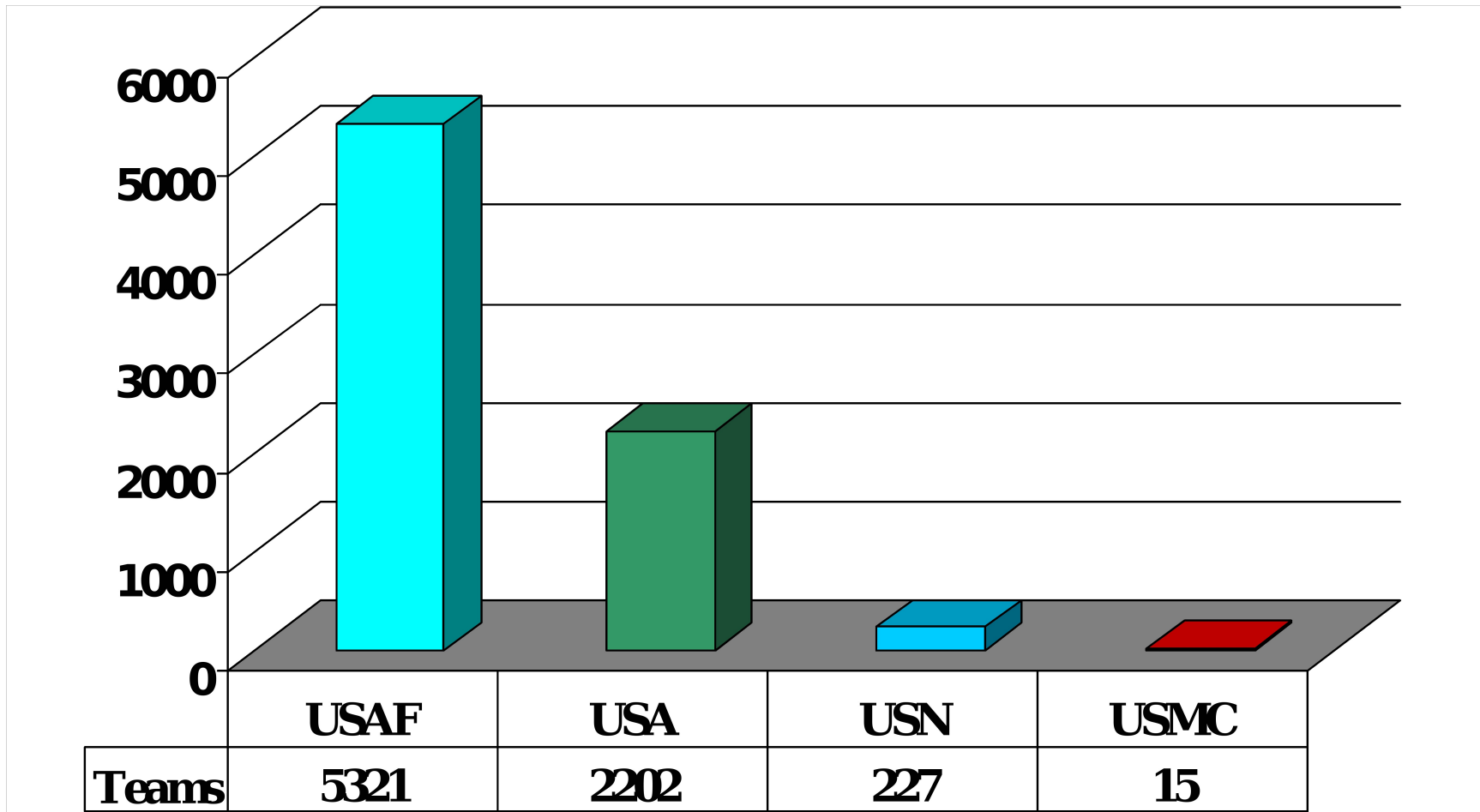
President's Ranch, Crawford, Texas

s Private Residence, Jackson Hole, Wyoming



FY05 VIPPSA DOD Support

U.S. AIR FORCE

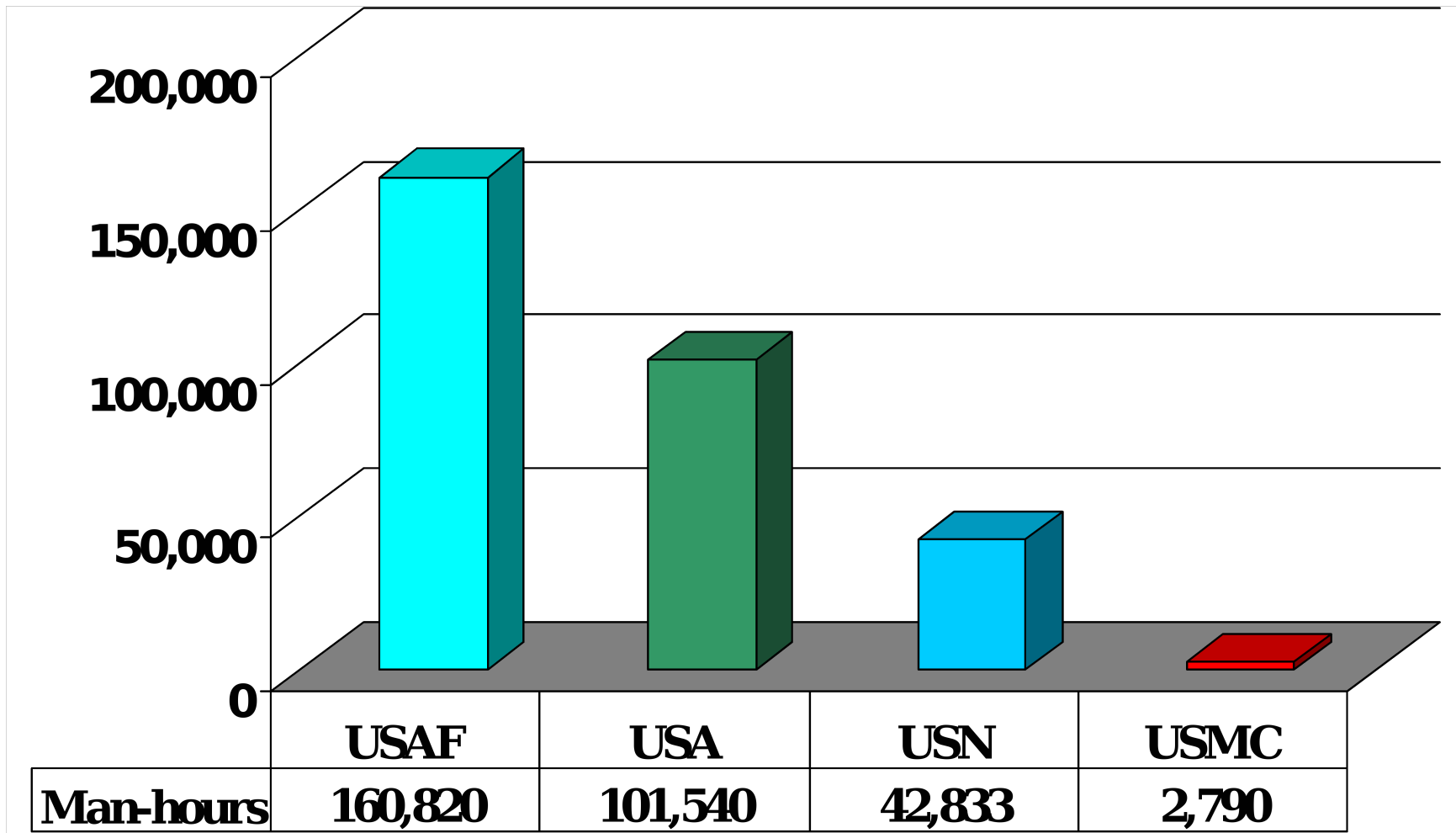


Integrity - Service - Excellence



U.S. AIR FORCE

FY05 VIPPSA DOD Support Man-hours



Integrity - Service - Excellence



U.S. AIR FORCE

Operations

- **Operations Tempo Overview**
- **Joint Service Capability**
- **Incident Category Codes**
 - **A, B, C, and D**
- **Types of Incidents**
 - **Aircraft Recovery**
 - **Munitions Incidents**
 - **IED**
 - **Nuclear/Hazmat/WMD**
- **Pit Falls**



U.S. AIR FORCE

Operations Tempo

- **Summary of Operations from Dec 04 to Dec 05**
 - 10,594 incidents totaling 448,186.48 man-hours (m/hrs)
- **Top 11 incidents (#incidents/man-hours)**
 - Pick up and/or disposal - 3,046/60,107m/hrs
 - IED incident - 2,635//51,788m/hrs
 - Eval hazardous/damaged munitions - 794//11,670m/hrs
 - Enemy attack - 167//1,572m/hrs
 - Post blast analysis - 951//20,800m/hrs
 - Disposal Unserviceable munitions - 474//19,601m/hrs
 - Other EOD incidents - 525//24,489m/hrs
 - Aircraft incidents - 375//6,125m/hrs
 - Area clearance - 72//12,261m/hrs
 - Range clearance - 143//71,852m/hrs
 - VIP Support - 897//160,820m/hrs

Integrity - Service - Excellence



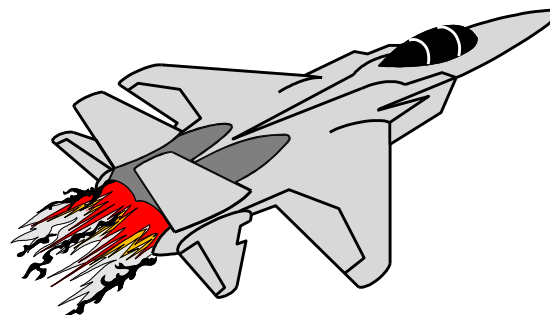
U.S. AIR FORCE

Operations

Joint Service Capability

(AFJI 32-3002)

- **Closest Unit Response**
- **US Army**
- **US Navy**
- **US Air Force**
- **US Marine Corp**



Integrity - Service - Excellence



Commanders' Involvement

Off-Base Requirements

U.S. AIR FORCE

- **Commanders' Permission**
 - **Legal Representative**
- **DoD Munitions Accidents**
 - **Closest Unit Initial Response Required**
 - **Owning Service Responsible**
 - **4-hour Response to Transportation Accident**
- **Non-DoD or Federal Request for Support**
 - **Closest Unit**
 - **Interest of Public Safety**
 - **Required for Military Munitions (Cradle to Grave)**

Integrity - Service - Excellence

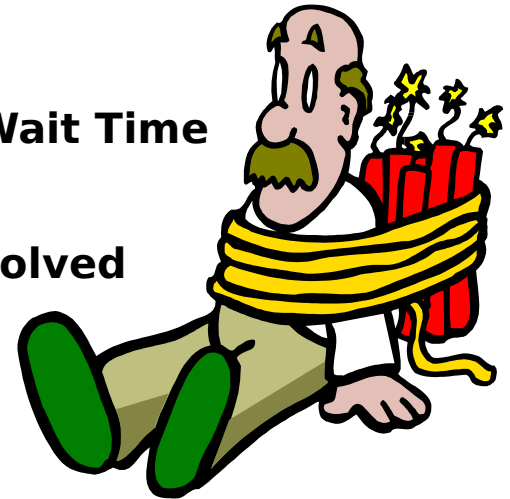


U.S. AIR FORCE

Incident Categories

- **Used to prioritize multiple incidents and risk factor decisions. Which will you do first?**

- **Category A - *Grave* or Catastrophic Threat**
 - Immediate Response: No Wait Time
- **Category B - *Indirect* Threat**
 - Immediate Response: Observe Safe Wait Time
- **Category C - *Minor* Threat**
 - Respond After Higher Categories Resolved
- **Category D - *No* Present Threat**
 - Respond When Time Is Available



Integrity - Service - Excellence



U.S. AIR FORCE

Typical Response Guidelines

- **Command Post notifies EOD Flight**
 - **Flight prepares for response: Entry Control Point (ECP) established, safe route identified**
 - **Team departs flight, arrives at ECP**
 - **Team Chief meets with OSC, gets response update**
 - **Team prepares equipment: robot, X-ray, bomb suit, hand tools, explosive cartridge check-out, and develops initial plan of attack.**
 - **Team clears plan of attack with OSC. This is what the team plans to do at the incident site**
 - **Team briefs results of first entry. Plan of attack may change when more information is gained**
 - **Team recommends future actions and consequences of those actions to the OSC. OSC approves course of action**

Integrity - Service - Excellence



U.S. AIR FORCE

Types of Incidents

Aircraft Recovery

- **Aircraft Recovery**
 - **EOD on Advance Team**
 - **Ensure Safety of Investigation Team**
 - **Recover/Destroy Munitions and Classified Components**
 - **Document Actions Taken**



Integrity - Service - Excellence



U.S. AIR FORCE

Types of Incidents

Munitions Incidents

- **Munitions Incidents**
 - **In-Flight Emergencies**
 - **Munitions Storage Area**
 - **Disposal of Unserviceable Munitions**
 - **Destruction of Captured Munitions**
 - **AEF (One Location) Destroyed 128,355 Ordnance Items**
 - **Totaled 6,746,772 Lbs of Ordnance**
 - **Military Munitions/Explosives Found in Community**



Integrity - Service - Excellence

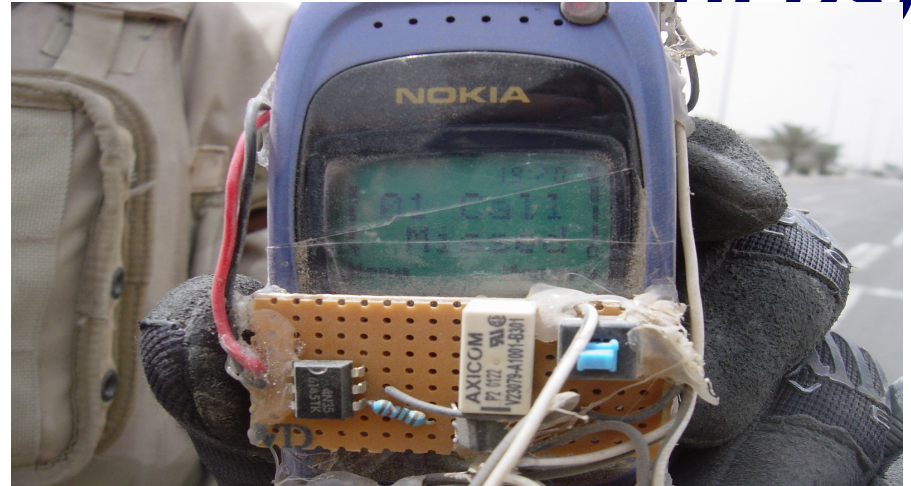


U.S. AIR FORCE

Types of Incidents

Improvised Explosive Devices (IEDs)

- Ingenuity of Builder
- Close-Hold TTP
- Target First Responders
- Secondary Devices



Not a Good Sign

Speed Bump ©1998 Creators Syndicate, Inc.

Integrity - Service - Excellence





U.S. AIR FORCE

IED Defeat Technology



- **Family of EOD Robots**
- **“Bang Stick”**
- **Thermal Imagers**
- **NVGs/Bomb Suits**
- **CREW (ground ECM)**



Slide 12

Integrity - Service - Excellence



U.S. AIR FORCE

Types of Incidents

Nuclear and Hazmat

- **Broken Arrow**
 - **Indirect/Direct Supporting Units**
 - **Emergency Actions**
 - **Hazards: Radiological, Toxic, Explosive**
 - **Weapons Briefings**
 - **Critical Nuclear Weapons Design Information**
 - **Render Safe & Continuation Requirements**
- **HAZMAT Response (WMD)**
 - **Explosive Related**
 - **Specialist Employee B**
 - **Awareness Level**
 - **Confined Space Trained**



Integrity - Service - Excellence



- **Weigh mission importance with preparation time**
- **Consider your environment**
- **Don't be afraid to ask for assistance**
- **AOR Example (times local)**
 - **0700 Drone goes down 30Km from base X**
 - **0725 EOD notified, hears installation will handle with DCG**
 - **0745 DCG recalled**
 - **1130 USAF notified USA responded to crash site, classified components have been recovered.**
 - **1200 DCG stood down**



Current Programs RONS & F6A Robotic Platforms



Integrity - Service - Excellence



U.S. AIR FORCE

Current Program MTRS

Talon is a lightweight, versatile UGV designed for missions ranging from reconnaissance to weapons delivery. TALON is designed to operate under adverse conditions and almost any terrain. It is controlled through either a two-way radio frequency or fiber optic line from a portable or wearable Operator Control Unit. Payloads include cameras, gripper manipulators, NBC sensors, UXO/countermine detection sensors and disrupters



Program: MK 2 Mod 0 Talon
Foster Miller

Users: **Joint Service**

Fielded: 0 Units

Safety Approval: Waiting on Lithium
Battery approval from WSERB &
NNSB

Integrity - Service - Excellence



U.S. AIR FORCE

Current Program MTRS

Produced by iRobot, the PACKBOT unmanned ground vehicle is designed for military reconnaissance, tactical law enforcement and explosives ordnance disposal. PACKBOT employs an aluminum main chassis with injection-molded tracks, polymer wheels and bogies.

Program: Mk 1 Mod 0 PACKBOT
I ROBOT

Users: **Joint Service**

Fielded: 0 Units

Safety Approval: WSERB &
NNMSB

Approved for EOD use



Contact Information

**Office/Agency: Det 63 Indian
Head**

POC: TSgt Wilson

Phone: DSN 354-6824

Email:

ronald.e.wilson@jeodnet.mil

Integrity - Service - Excellence



U.S. AIR FORCE

Current Programs Bombot



Integrity - Service - Excellence





U.S. AIR FORCE

Current Programs

All-Purpose Remote Transporter (ARTS)



Integrity - Service - Excellence





U.S. AIR FORCE

Current Programs

UA-HMMWV



Integrity - Service - Excellence



U.S. AIR FORCE

Current Programs

6X6 Cougar



Integrity - Service - Excellence



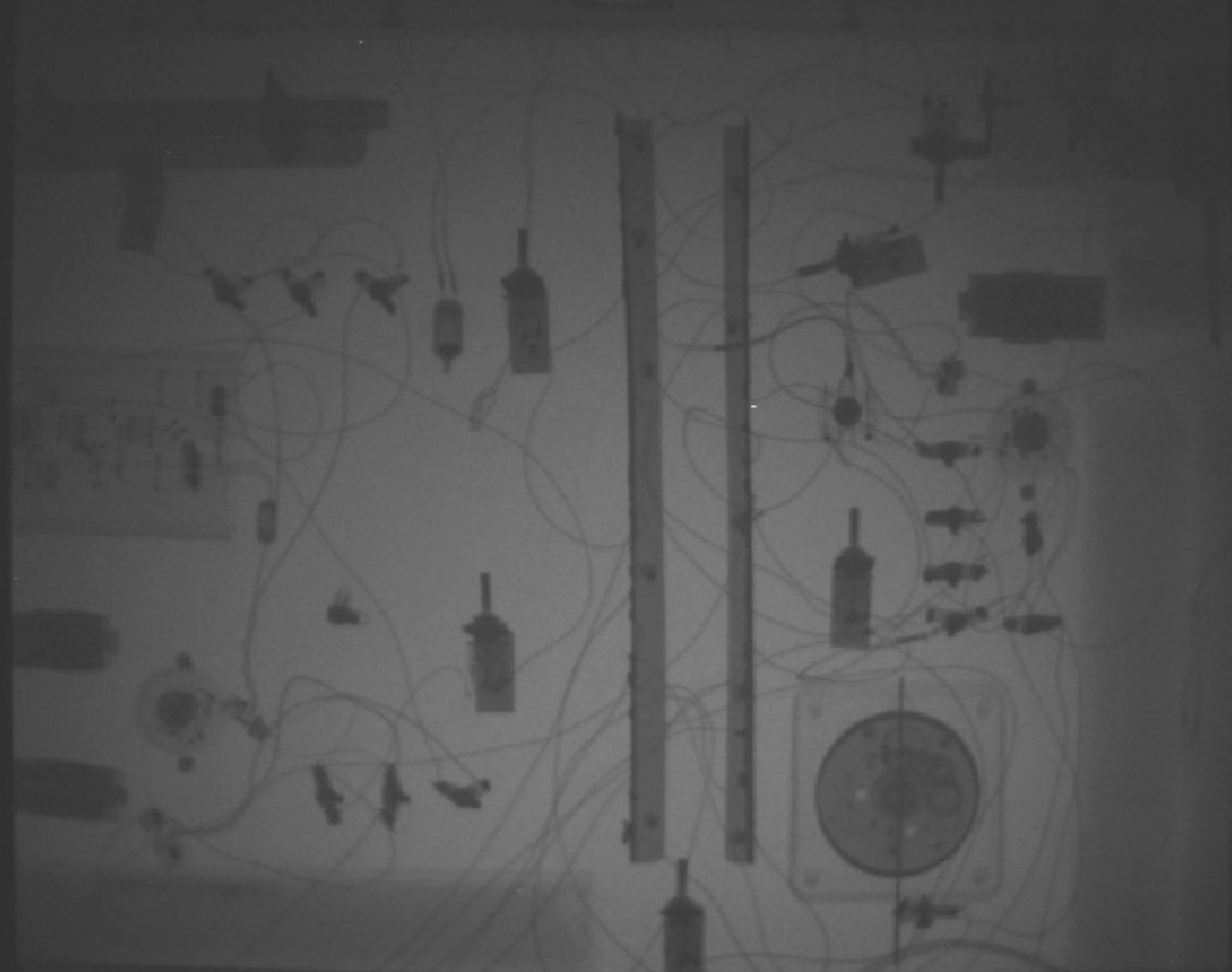
U.S. AIR FORCE

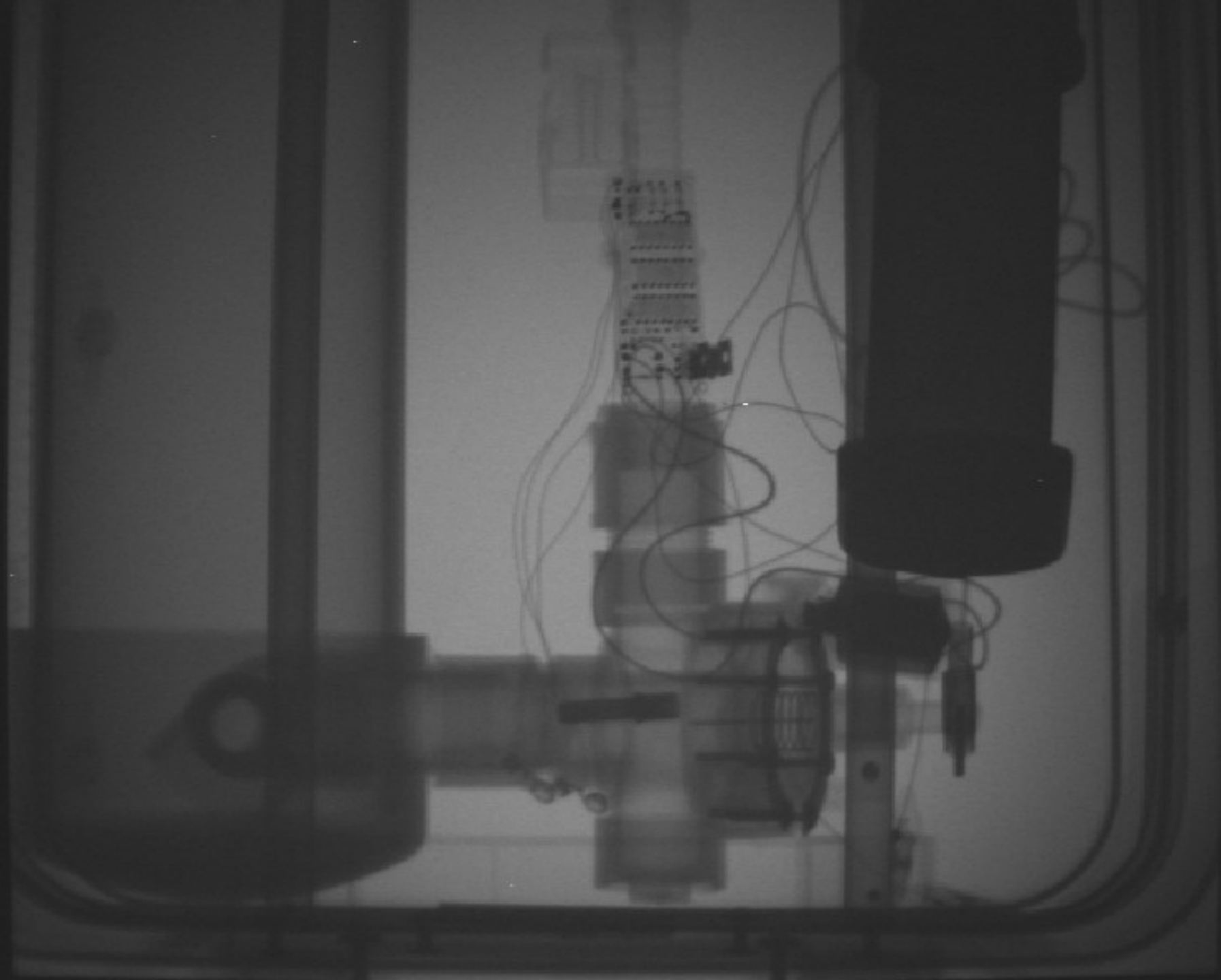
Current Programs X-Ray Systems



RTR-4N Shown with Wireless Option

Integrity - Service - Excellence







U.S. AIR FORCE

Current Programs Small Caliber Disrupter/Bomb



Integrity - Service - Excellence



U.S. AIR FORCE

Current Programs RE-70 Dearmer



Integrity - Service - Excellence



U.S. AIR FORCE

Current Programs

M82A1M Barrett (M107)

M82A1M



Integrity - Service - Excellence



U.S. AIR FORCE

Current Programs BSERV



Integrity - Service - Excellence



U.S. AIR FORCE

Summary

- **Mission Definition**
- **AF EOD Mission Areas**
- **Training**
- **Manning**
- **VIP Support**
- **Operations**
- **Current Programs/Equipment**

Integrity - Service - Excellence



U.S. AIR FORCE

Questions



***“INITIAL SUCCESS OR TOTAL
FAILURE”***

Integrity - Service - Excellence



U.S. AIR FORCE

BACKUPS

Integrity - Service - Excellence



U.S. AIR FORCE

Preparing the War Fighter

- **Combat Skills Training Requirements**
- **EOD Specialized Training Equipment/Vehicles**



Integrity - Service - Excellence



U.S. AIR FORCE

AF EOD Mission in OIF/OEF



- **Airbase force protection**
 - UXO after attack/airfield clearance
 - IED/suspect package response
 - Vehicle Borne IED response
 - Aircraft incident support/response
 - Provide explosive ordnance and post attack recon training
- **MNC-I force protection**
 - IED/suspect package response
 - Captured Enemy Ammunition
 - Weapons cache disposal
 - Post-blast analysis
 - Vehicle Borne IED response
 - Intelligence gathering

Integrity - Service - Excellence



U.S. AIR FORCE

AF EOD Mission in OIF/OEF

- **Impact to Coalition Ops**
- **Enhanced Force Protection**
- **Freedom of Movement**
- **Open Supply Lines**



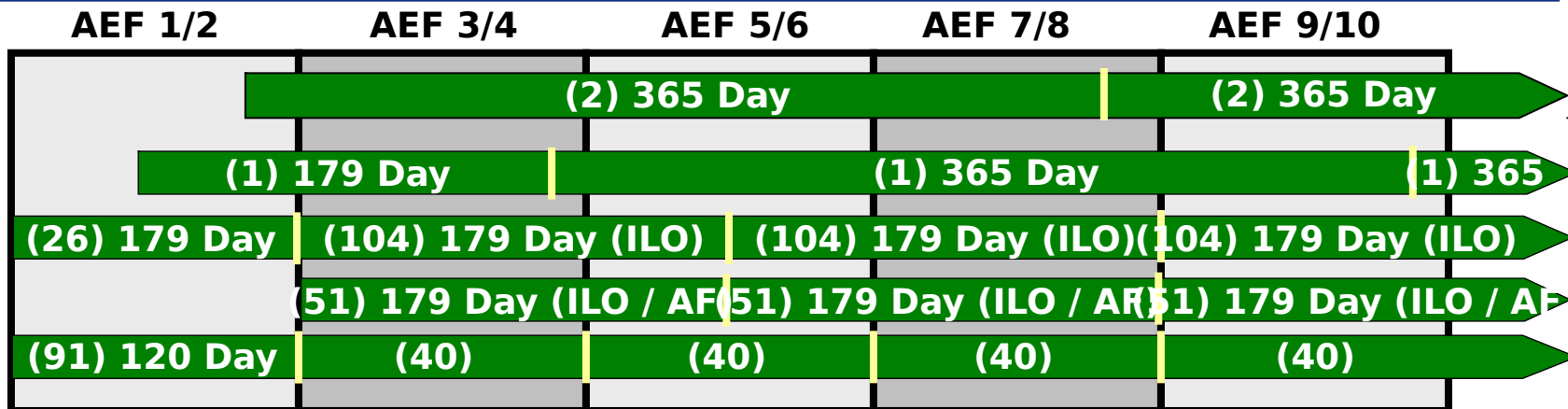
Integrity - Service - Excellence



EOD Supply and Demand

U.S. AIR FORCE

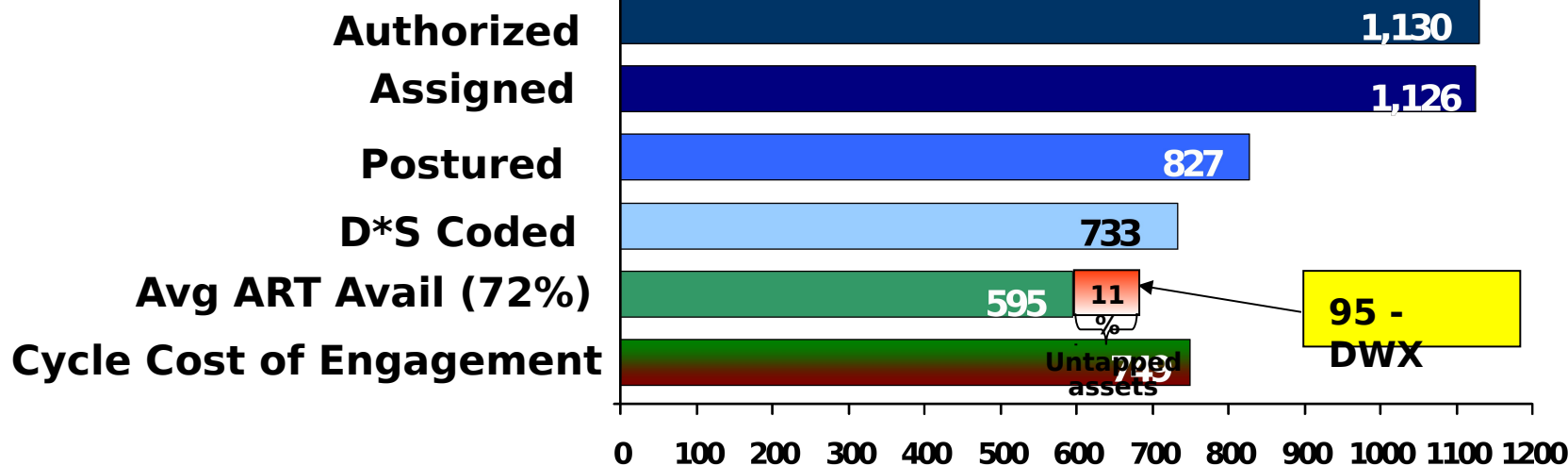
(Cycle 6)



= Standard Mission

(Tour Length Based On Mission Needs)

= EETL (Tour Length Extended
Based on Limited Resource)



Integrity - Service - Excellence



U.S. AIR FORCE

Command and Control

- **AF EOD providing Army support are TACON to Joint Task Force Troy, ADCON/OPCON to 332/506 ECES**
- **Ali and BIAP EOD are OPCON/TACON/ADCON to ECES**
 - **Request for assistance accomplished the same way it is in the CONUS—General Support**
- **Aug 05 Msg from CENTAF/CC on the “Employment of USAF EOD Teams in Support of Ground Forces”**
 - **Directs the use of AF EOD Teams ISO MNC-I missions**
 - **Establish mutual expectations with supported commanders for AF EOD support outside the wire**

Integrity - Service - Excellence



U.S. AIR FORCE

Intelligence Gathering



- **Incident Site**
- **Information Flow**
- **Intelligence Agencies**
 - **Combine Explosives Exploitation Cell (CEXC)**
 - **IED Task Force**

Integrity - Service - Excellence